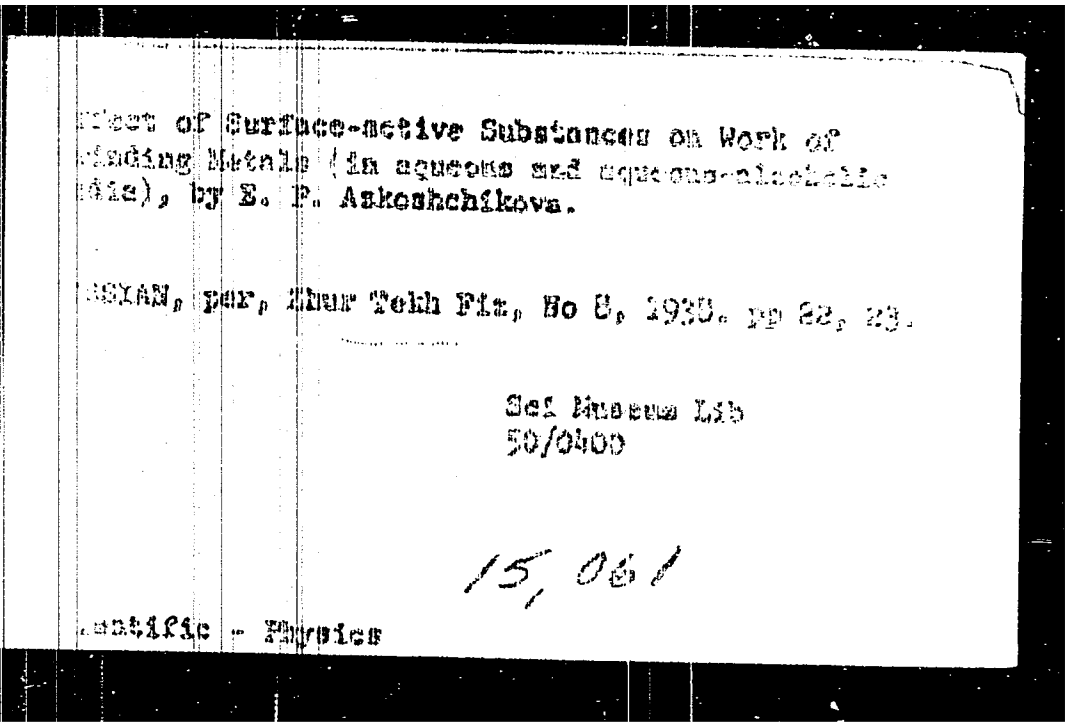
APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



Effect of Surface-active Substances on Work of Breaking Metals (in aqueous and aqueous-alcoholic media), by E. P. Askochchikova.

[illegible]SKAN, ser, Zhur Tekh Fiz, No 8, 1939. pp 22, 29.

Sci Museum Lib
50/040

15,061

Scientific - Physics

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Dobrolyubskii, A.
PHOTOSENSITIVITY AND SECONDARY ELECTRON EMISSION FROM OXYGEN CESIUM LAYERS IN DIFFUSION PROCESSES. [1963] [16p] AERDL T-1688.
Order from OTS or SLA $1.60 TT-63-23942

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1938, v. 8, no. 3, p. 226-231.

DESCRIPTORS: *Photoelectricity, *Semiconductors, *Thin films, *Metal films, *Cesium compounds, Oxides, Impurities, *Silver, Diffusion, *Secondary emission

(Physics--Solid State, TT, v. 11, no. 6)

TT-63-23942

I. Dobrolyubskii, A.
II. AERDL T-1688
III. Army Engineer Research and Development Labs. Fort Belvoir, Va.
IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Propagation of Oscillations in a Two-Phase System by A. Viglin.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki
Vol VIII, Nos 3/4, 1938, pp 275-285.
*NASA TT F-10,943

Sci-Methods and Equipe
May 67

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zhur Tekh Fiz Vol 8, page 1014-22 (1938)

Distribution of the Energy of Secondary Electrons Emitted by a Composite Cesium Cathode. By A. I. Pyatnitski.

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zaitsev, N. S. and Khlebnikov, N. S.
SOME TECHNOLOGICAL PROBLEMS RELATING TO OXYGEN-SILVER-CESIUM PHOTOELECTRIC CATHODES. [1963] [28p] 9refs AERDL T-1689.
Order from OTS or SLA $2.60 63-24016

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1938, v. 8, no. 11, pp. 1023-1029.

DESCRIPTORS: *Cathodes, Oxygen, Silver, Cesium, *Phototubes, Manufacturing methods, Films, Tests, Cathodes (Electron tubes).

(Engineering--Electronic, TT, v. 10, no. 12)

63-24016

I. Zaitsev, N. S.
II. Khlebnikov, N. S.
III. AERDL T-1689
IV. Army Engineer Research and Development Labs, Fort Belvoir, Va.
V. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Effect of the Duration of the Load on the Hardness of Metals and Their Alloys, by V. P. Shishokin.

RUSSIAN, per, Zhur Tekh Fiz, Vol VIII, No 18, 1938, pp 1613-1628.

BISI 1766

Sci - Phys

Oct 60

130/98

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Golbreich, Yu. V.
PREPARATION OF THERMOSTABLE BRIGHT SILVER COATINGS FOR PHOTOELECTRIC CATHODES. [1963] [18p] AERDL T-1691.
Order from OTS, SLA, or ETC $1.60 TT-63-23944

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) [1938] v. 8, no. 13/14, p. 1229-1234.

DESCRIPTORS: *Phototubes, Glass, Plating, *Silver electrodes, *Cathodes (Electron tubes), Metal films, *Metal coatings, *Silver plating, *Optical phenomena, Light transmission, Reflection.

(Engineering--Electronic, TT, v. 11, no. 4)

TT-63-23944

I. Goldbreich, Yu. V.
II. AERDL T-1691
III. Army Engineer Research and Development Labs., Fort Belvoir, Va.
IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Photoeffect and Secondary Emission of Cathodes Consisting of Alloys, by N. M. Gopshtein, D. M. Kharosh.

Full translation.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol VIII, No 24, 1938, pp 2103-2106.

AEC Tr 1618

USSR
Scientific - Physics

Jul 53 CIS 4015

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

New Complex Photocathodes, by N. S. Khlebnikov, and N. S. Zaitsev, 30 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1939, Vol IX, pp 44-64.

Sci Mus Lib No 52/3255

Scientific - Physics

27 December 1952

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Thermal Conductivity of Steam at High Pressures and Temperatures, by Mark N. M. Vargaftik, D. L. Timrot, 15 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 1, 1939, pp 63-70.

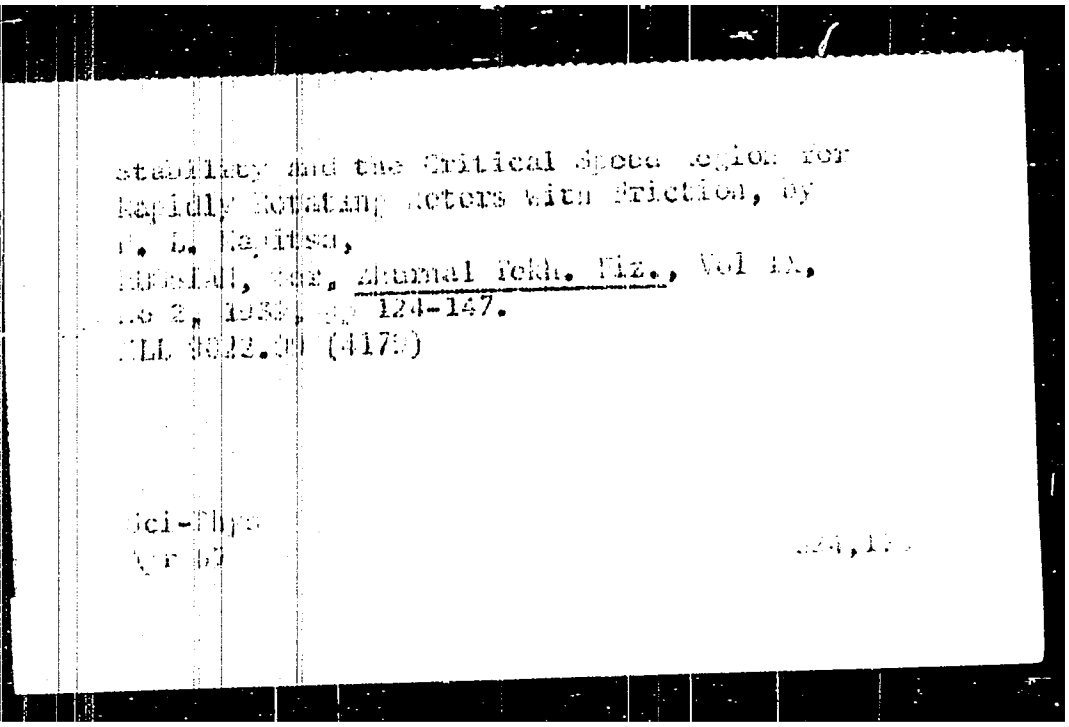
Sci Tr Center
ET-1465

18,921

Scientific - Physics

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



stability and the Critical Speed Region for
Rapidly Rotating Rotors with Friction, by
V. L. Vaytsa,
Moscow, USSR, Zhurnal Tekh. Fiz., Vol 19,
No 2, 1949, pp 124-147.
TLL 9822.20 (417)

Sci-Tech
Vol 67

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Electronic Conductivity in Dielectrics at High Fields, by F. F. Vol'kenshtein, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 3, 1939, pp 171-187.

Sci Tr Center
RT- 1447

Scientific - Nuclear Physics

18,922

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Physical Basis of Separating Helium and Nitrogen, by R. M. Ruemann, A. Fedoritenko, 17pp.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol 7, No 4, 1937, pp 335-342.
CFSTI TT-64-71206.

342,350

Sci - Chemistry
Mar 67

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Propagation of Oscillations in a Two-Part System of a Liquid and Its Vapor, Part I, by A. Viglin,
RUSSIAN, per. Zh. Tekh. Fiz, Vol VIII, No 3, 1938, pp 275-285.
NASA TT F-10,943

Sci-Pys
Jul 67

332,901

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Activation of Antimony-Caesium photocathodes With Sulphur and Selenium, by V. V. Zhukov, 10 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1939, Vol 9, No 5, pp 376-380.

Sci Mus Lib No 52/3280

Scientific - Physics

27 December 1952

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zh Tek Fiz Vol 9, pp 287-94, 1939

Residual stresses in quenched test pieces of [redacted] cylindrical shape, by A. S. Kompaneets

AEC/BNL/Tr 120

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Tsukhanova, O. A.
VERBRANDING VAN DE WANDEN VAN EEN KOOLSTOFKANAAL BIJ GEDWONGEN ZUURSTOFDIFFUSIE (Combustion of the Walls of a Carbon Channel under Conditions of a Forced Diffusion of Oxygen) tr. by G. J. M. Fritschy. 16p. 10 refs. MTWL: 42. (text in Dutch).
Order from OTS or ETC $1.85 61-17660

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939, v. 9, p. 295-304.

DESCRIPTORS: *Carbon, *Combustion, Oxygen, Pipes, Aerodynamics, Gases.

61-17660

I. Tsukhanova, O. A.
II. MTWL--42
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Panchenkov, G. M. and Konstantinova, K. V.
FRICTION BETWEEN METALS IN THE PRESENCE OF A LUBRICANT. [1961] 8p 23refs
Order from OTS, SLA, or ETC $1.10 TT-61-16810

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939, v. 9, p. 537-544.

DESCRIPTORS: *Friction, Metals, *Lubricants, Lubrication, Surface-active substances, Surface properties, Oils,

(Materials--Lubricants, TT, v. 11, no. 4)

TT-61-16810

I. Panchenkov, G. M.
II. Konstantinova, K. V.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

A Piezo-Quarz Dynamometer for Measuring Impact Stresses, by N. A. Andreyevskiy, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, 1939, pp 680-686.

AEC SCL T-317

Sci - Phys
14 Oct 60

128,914

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Heat Transfer and Hydraulic Flow Resistance for Streams of High Velocity, by V. L. Lel'chuk, 20 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 9, 1939, pp 808-818.

Sci Trans Center HT-532

Aeronautics

Scientific - Engineering

10,987

CCS/DEM

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Secondary Electron Emission of Tungsten, Copper and Iron at High Tension, by V. A. Antonov.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, 1939,

ABC Tr

Scientific - Min/Metals

12.793

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Davidenkov, N. N. and Shevandin, Ye. M.
THE STUDY OF RESIDUAL STRESSES DUE TO BENDING. [1961] [15]p. 4 refs.
Order from OTS or SLA $1.60 61-10932

Trans. of [Zhurnal Tekhnicheskoy Fiziki] (USSR) 1939, v. 9, no. 12. p. 1112-1124.

DESCRIPTORS: *Steel, *Stresses, Deformation, *Chromium alloys, *Molybdenum alloys.

(Unannounced)

61-10932

I. Davidenkov, N. N.
II. Shevandin, Ye. M.

184005

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Certain Applications of Cascade of Secondary Electron Photocells for Photometry at Low Intensities of Light, by S. P. Rodionov, 13 pp.

Full tr

RUSSIAN, mo per, Zhur Tekh Fiz, Vol IX, No 13, Moscow, 1939, pp 1180-1187.

ATIC F-TS-8711/III

Scientific - ~~Electronics~~ Physics

37,795

CTS/Dex
Aug 56

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zhurnal Vol 9, page 1199-212 (1939)
Zh Tekh Fiz

Detecting Frequency Modulated Oscillations.
by V. N. Milshtein

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Antimony-Caesium Photocathode, by [illegible]
S. S. Fridenmer, 24 pp.

Full translation.

RUSSIAN, Zhur Eksh Fiz, 1939, [illegible] Vol IX, No 16, pp 1439-1454.

Sci Mus Lib No 52/3272

Scientific - Chemistry

27 December 1952

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Tribo-Electric Dust Charges, by N. N. Toonitskiy, M. V. Tikhomirov, I. V. Petryanov.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol X, No 20, 1939, pp 1723-1726.

S.M.R.E.
Min of Fuel & Power
Tr 3783, OT/1190

Scientific - Electricity, Physics
CTS 70/Jul 55

675,255

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Sound Absorption by Means of Two Resonant Systems, by B. C. Nesterov.
RUSSIAN, per, Zhurnal Tekh Fiz, Vol 9, No 19, 1939, pp 1727-1739.
NLL Ref: 3774.5)1860)

Sci-Eng
Nov 69

395,664

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

On the Possibility Of Using an Evaporation Method For Determining the Cowfficient Of Intermetallic Diffusion by A.M. Zagrubskii.

RUSSIAN, per, Zhurnal Teknicheskoi Fiziki, Vol IX, No 19, 1939, pp 1767-1770.

CSIRO

Oct. 62

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Likhter, A. I. and Tikhonovich, N. P.
VAPOR-LIQUID EQUILIBRIUM IN THE SYSTEM ETHYLENE-METHANE-HYDROGEN, I. [1961] 9p 9refs
Order from OTS, SLA, or ETC $1.10 TT-61-16826

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939, v. 9, p. 1916-1922.

DESCRIPTORS: *Thermochemistry, *Liquefied gases, Vapors, *Ethylenes, *Methanes, *Hydrogen, *Phase studies

(Chemistry--Physical, TT, v. 11, no. 3)

TT-61-16826

I. Likhter, A. I.
II. Tikhonovich, N. P.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Correlation Between the Conductivity and the Emission Characteristics of Cesium Oxide Cathodes, by P.Borziak.
RUSSIAN, per, Zhurnal Technicheskoi Fiziki, Vol.9, No.22, pp.2032-2041, 1939.
AERDL-T-1840-66;AD-633 411
(CFSTI)

Chem/Eng
Aug 66

308,953

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Kontorovich, M. I.
THE SHIELDING EFFECT OF CLOSED WIRE SCREENS (Ob Ekraniruyushchim Deystvii Zamknutykh Setok) tr. by E. Feigl. [1961] [37]p. (foreign text included) 3 refs. [CSIRO] Trans. 5106. Order from LC or SLA mi$3.00, ph$6.30 61-19376

Trans. of Zhurnal Tekhnicheskoy Fiziki (USSR) 1939, v. 9, no. 24, p. 2195-2210.

(Unannounced)

61-19376

1. Electromagnetic shielding--Equipment
2. Wire screens--Applications
I. Kontorovich, M. I.
II. CISRO Trans-5106
III. Commonwealth Scientific and Industrial Organization (Australia)

[illegible]

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

On Energy Expressions in Acoustics, by N. Andrejew, 33 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol II, No 4, 1940, pp 305-312.

SLA Tr R-689

Sci Electronics

50,356

Aug 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

RUSSIAN, mo per, Zhur Tekh Fiz, Vol IX, No 18, 1940, pp 1677-1682.

*ATIC

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Peculiarities of the Induction Heating of Steel, by
S. I. Shtat.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940.

AEC Sr

USSR
Scientific - Min/Metals

15060

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zhurnal Tekhnicheskoi Fiziki, v.X, #3

DC P 177-195

High-voltage electrostatic Generators of direct-current voltage.

Gokhberg, B.M.

ST-243

Feb. 15, '51

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

(FDD 20639)

Electric Probe of Rochelle Salt, by B. V. Gorelik, 14 pp.

RUSSIAN, IAN SSSR, Zhur Tekh Fiz, Vol X, No 5, Moscow, May 1940, pp 369-375.

CIA/FDD/U-5774

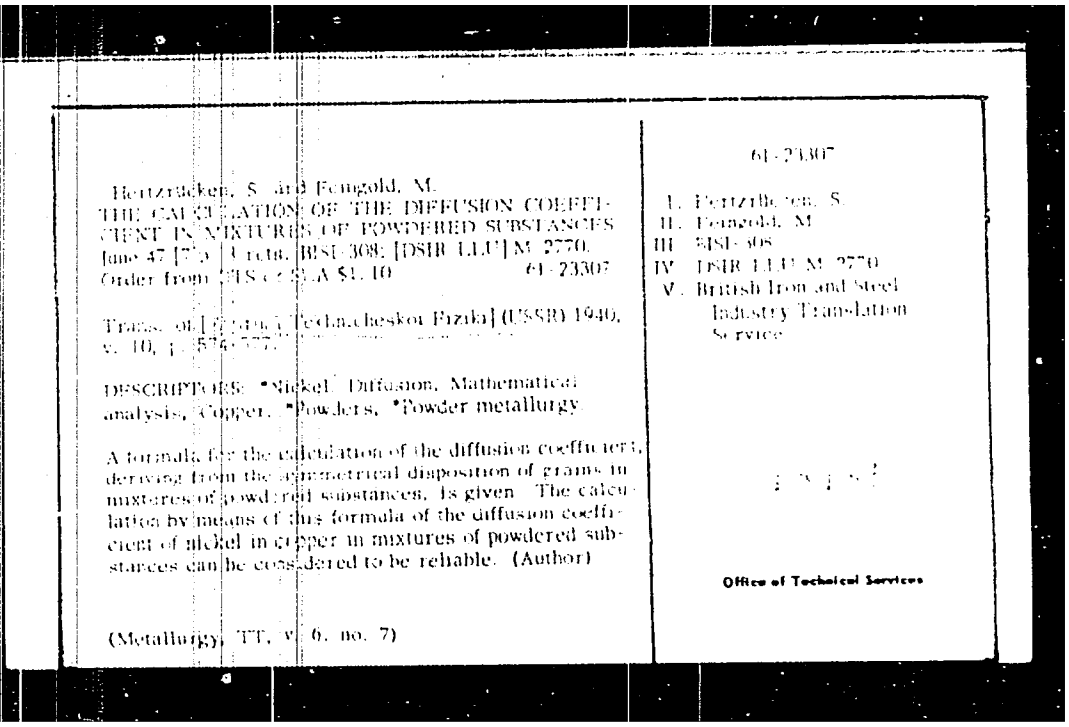
USSR
Sci - Physics

13,140

Apr 54 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



Hertzriicken, S. and Feingold, M.
THE CALCULATION OF THE DIFFUSION COEFFICIENT IN MIXTURES OF POWDERED SUBSTANCES
[nno 47 [7p.] Uncln. BISI-308; [DSIR LLL] M-2770.
Order from: OTS or SLA $1.10 61-23307

Trans. of [Zhurnal Tekhnicheskoi Fizyki] (USSR) 1940, v. 10, [5] 574-577.

DESCRIPTORS: *Nickel Diffusion, Mathematical analysis, Copper, *Powders, *Powder metallurgy

A formula for the calculation of the diffusion coefficient, deriving from the asymmetrical disposition of grains in mixtures of powdered substances, is given. The calculation by means of this formula of the diffusion coefficient of nickel in copper in mixtures of powdered substances can be considered to be reliable. (Author)

(Metallurgy) TT, v. 6, no. 7)

61-23307

I. Hertzriicken, S.
II. Feingold, M.
III. BISI-308
IV. DSIR LLL M-2770
V. British Iron and Steel Industry Translation Service

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Gerf, S. F. and Galkov, G. I.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR MIXTURES [1] [1951] 8p. 11 refs.
Order from OTS or SLA $1.10 61-18004

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940, v. 10, p. 725-732.

DESCRIPTORS: *Liquefied gases, Viscosity, Mixtures, Temperature, Mathematical analysis, Propenes, Propanes, Ethanes, Methanes, Nitrogen, Ethylenes.

Coefficients of viscosity were determined by the method of Poiseuille for propene, propane, ethane and mixtures of methane with nitrogen, methane with ethylene and ethane with ethylene. The measurements were carried out in the temperature interval from the triple point to the temperature close to the boiling point of these substances under atmospheric pressure. The results re- (Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18004

1. Title: Poiseuille flow
I. Gerf, S. F.
II. Galkov, G. I.

B F71-

[illegible]5417

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Determination of the Diffusion Coefficient of Metals by the Method of Vaporization of Metals, by S. D. Certsriken, et al. RUSSIAN, per, Zhur. Tekhn. Fiz. Vol. 10 no. 10, 1940, pp. 786-794.
*CFSTI TT 70-57029

Sci/phys
Feb 70

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Borovik, E., Matveev, A., and Panina, E.
HEAT CONDUCTIVITY OF LIQUID NITROGEN, CARBON MONOXIDE, METHANE AND ETHYLENE.
[1961] 4p. 7 refs.
Order from OTS or SLA $1.10 61-18111

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940 v. 10, no. 12, p. 988-998.

DESCRIPTORS: Ethylenes, Methanes, Carbon compounds, Monoxides, *Heat transfer, *Liquefied gases, Nitrogen.

The heat conductivity of liquid nitrogen and carbon monoxide were determined within the temperature intervil of from -196 to -160°C., of methane from -170 to -160°C. and of ethylene from -160 to 0°C. The heat conductivity of all these substances was found to decrease in proportion to the rise of the temperature. (Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18111

I. Borovik E.
II. Matveev, A.
III. Panina, E.

105423

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Shur, J.S.
THE HEAT TREATMENT IN A MAGNETIC FIELD OF PERMANENT MAGNET ALLOYS OF HIGH COERCIVE FORCE. 7 p. 6 refs. MTWL: 674.
Order from OTS or ETC $1.55 61-17186

Trans. of Zhurnal Tekhnicheskoĭ Fiziki (USSR), 1940, v. 10, no.9, p. 757-760.

DESCRIPTORS: *Magnetic alloys, Magnetic field, *Heat treatment, Magnetic properties, Magnetic materials.

61-17186

I. Shur, J.S.
II. MTWL-674
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Thermal Conductivity of Water at High Temperatures,
by D. L. Timrot, N. B. Vargaftik.

RUSSIAN, no per, Zhur Tekh Fiz, Vol X, No 13,
1940, pp 1063-1073.

Assoc Tech Sv
Tr $15.95
RJ-585 S-2,237

Sci - Physics
Sep 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Likhter, A. I. and Tikhonovich, N. P.
VAPOR-LIQUID EQUILIBRIUM IN THE SYSTEM ETHYLENE-METHANE-HYDROGEN. II. III. [sic].
[1961] 7p. 9 refs.
Order from OTS or SLA $1.10 61-16825

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940, v. 10, p. 1201-1206.

DESCRIPTORS: *Ethylenes, *Methanes, *Hydrogen, *Liquids, *Gases, Solubility, Thermodynamics.

Liquid-vapor equilibrium diagrams were determined by the static method for the binary system methane-hydrogen at temperatures of -115, -105, -95 and -85°C and pressures up to 80 atm. By the same method liquid-vapor equilibrium diagrams were determined for the ternary system ethylene-methane-hydrogen under pressures of 30, 40 and 80 atm. at temperatures of from -115 to -85°C. (Author)
(Chemistry--Physical, TT, v. 6, no. 10)

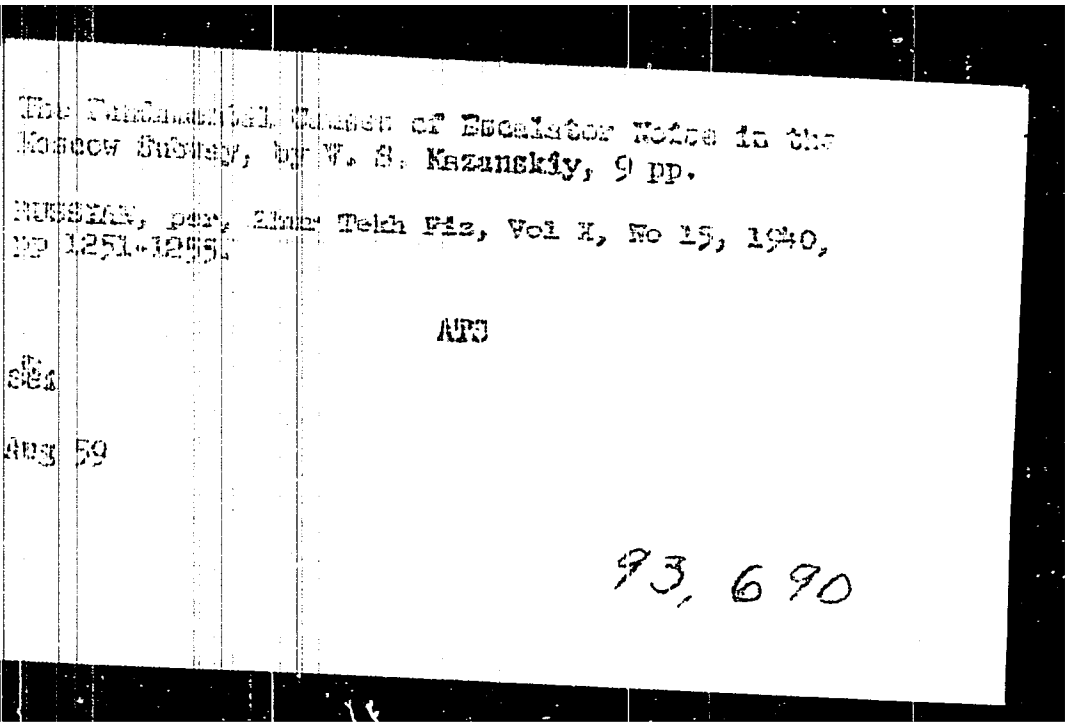
61-16825

I. Likhter, A. I.
II. Tikhonovich, N. P.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



The Fundamental Cause of Escalator Noise in the Moscow Subway, by V. S. Kazanskiy, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 15, 1940, pp 1251-1255

ABS

Ang 59

93, 690

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Spark-Over of Compressed Gases, by
A. S. Matveyev, F. F. Kharakhorin.
UNCLASSIFIED

RUSSIAN, mo per, Zhur Tekh Fiz SSSR, Vol X,
No 12, 1940, pp 1121-1126.

Navy Tr 12[illegible]7/NRL 521

Scientific Physics

25,711

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Generation of Powerful Oscillations With a Magnetron in the Centimeter Band, by N. F. Alekseyev, D. D. Malyarov, 13 pp.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol X, No 15, 1940, pp 1297-1300.

Sci Tr Center RT 3538
'36, 158

Physics

Jun 56 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Combustion of a Coal Particle in a Current of Gas Flowing Past It by A. S. Predvoditelev

RUSSIAN, Zhur Tekh Fiz, Vol X, No 16, 1940, p-1311.

Sci Museum Lib No 50/3342 - London

Scientific

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zhur Tekh Fiz Vol 10, page 1324-30 (1940)

Heat Exchange at very low Prandtl Numbers.
by M. A. Stirikovich and I. E. Semenovker.

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Equations of Transport of Radiant Energy and Similarity of Radiating Systems, by A. S. Nevski, 19 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 18, 1940, p 1502.

CIA/FDD X-4707

166, 450

Sci - Phys

Sep 61

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Sulfide Rectifier, by Yu. A. Dunayev &
B. V. Kurchatov.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki SSSR,
Vol 10, No 22, 1940, pp 1857-1870.
*NASA TT F-11,450

Sci/Phys
Mar 68

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Fatigue of Antimony-Casium Photocathodes, by
N. S. Khlebnikov, P. A. Sinitsyn, 14 pp.

RUSSIAN, per, Zhur Tekh Fiz SSSR, Vol X, No
22, 1940, pp 1913-1918.

SLA Tr R-717

Sci - Electricity

50,627

Aug 57

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

New Oxygen-Silver-Cesium Photocathodes
by N. S. Khlebnikov, P. A. Sinitsyn.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol X, No 22, 1940, pp 1919-1923.
CFSTI TT 6471451

Apr 67 323,00100

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Burning of Ash-Bearing Coal, by L. A. Vulis. UHCI.

RUSSIAN, ptr, Zhur Tekh Fiz, Vol X, 1940, p 1959.

DSIR LLU M.1238

(loan)

Sci - Fuels
Feb 50

108374

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Method

The Model Method of Study of Electromagnetic Fields in Systems of Induction Heating, by O. I. Babat.

RUSSIAN, per, Zhur Tekh Fiz, Vol XI, 1941.

AEC Tr

Scientific - Physics

15,053

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

(END ABSTR)

The Reflex Gain Factor and Phase Relations in UHF Fields, by D. A. Vvedenskiy, 14 pp.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XI, No 1/2, Moscow/Leningrad, Jan/Feb 1941, pp 37-43.

CIA/MID/U-5957

USCM
Scientific - Electronics, ultra-short waves

15,646

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Ultrasonic Methods for Studying the Properties of Hardened Steel and for Detecting Internal Defects in Steel Parts, by S. Ya. Sokolov,

RUSSIAN, Per, Zhur Tekh Fiz, Vol XXX XI, No XXXX 1-2, 1941, pp 160-169.

23/163

Brutcher Tr No 3392
$9.50

Scientific - Min/Metals

Avr
XXX 55 CTS

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Levitskaya, E.F.
ÉTUDE DE L'ÉQUILIBRE LIQUIDE-VAPEUR DU SYSTÈME TERNAIRE: ÉTHANE-MÉTHANE-HYDROGÈNE (Issledovanie Ravnovesiya Zhidkost'-par Trojnoi Sistemy: Etan-Metan-Vodorod) (Investigation of the Liquid-Vapor Equilibrium in the Ternary System Ethane-Methane-Hydrogen). 17p. (foreign text included)
Refs. CNRS-VI 801.
Order from OTS, ETC or CNRS $0.80 TT-62-28565

Trans. in French of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v.11, no.3, p.197-204.
Other translations are available in English from ATS as RJ-806; from OTS or SLA $1.10 as TT-61-18036 and $1.10 as TT-62-18807; and in Part I from OTS or ETC $1.85 as TT-61-17751.

DESCRIPTORS: Ethanes, *Methanes, *Hydrogen, *Liquids, *Gases, Pyrolysis, Solubility, Temperature, Pressure, Vapors, Phase studies, Thermodynamics.
(Chemistry - Physical, TT v. 11, no. 8)

TT-62-28565

I. Levitskaya, E.F.
II. CNRS-VI 801
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
Publication Translations Center

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Kushnir, Yu. M. and Frumin, M. I.
ENERGY DISTRIBUTION OF SECONDARY ELECTRONS AS A FUNCTION OF ANGLE OF EMISSION.
[1960] 8p. 14 refs.
Order from RIS $4.00 RIS E-642

Trans. of Zhur[nal] Tekhnicheskoy Fiz[iki] (USSR)
1941, v. 11, no. 4, p. 317-322.

143,131

(Physics - Electronics, TT, v. 5, no. 1)

61-12045

1. Secondary emission--Energy
I. Kushnir, Yu. M.
II. Frumin, M. I.
III. RIS E-642
IV. Research Information Service, New York

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

61-18072

Strelkov, P. G. and Lin'kov, V. I.
STANDARDIZATION OF A RESISTANCE THERMOMETER AT THE OXYGEN POINT. [1961] 13p. 12 refs
Order from OTS or SLA $1.60 61-18072

I. Strelkov, P. G.
II. Lin'kov, V. I.

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 367-377.

DESCRIPTORS: *Resistance thermometers, Thermometers, Standardization, Oxygen, Determination.

(Physics--Thermodynamics, TT, v. 7, no. 9)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Reduction of Carbon Dioxide in Carbon Channel, by L. A. Vulis, L. A. Vitman, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XI, 1941, pp 509-518.

SLA R-2976

Sci

Jul 59

97, 446

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Galkov, G. I. and Gerf, S. F.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR MIXTURES, II. [1951] 4p. 6 refs.
Order from OTS or SLA $1.10 61-18003

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 613-616.

DESCRIPTORS: *Liquefied gases, Viscosity, Mixtures, Temperature, Mathematical analysis, Oxygen, Ethanes, Propanes, Propenes, Nitrogen.

Coefficients of viscosity for liquid oxygen, ethane, propene, propane and mixtures of ethane with propene and of oxygen with nitrogen were determined by the method of Poiseuille. The measurements were carried out in the interval of temperatures from the melting to the boiling points. The results are reported as viscosity-temperature and viscosity-composition curves. (Author) (See also 61-18004)

61-18003

I. Title: Poiseuille flow
I. Galkov, G. I.
II. Gerf, S. F.

* ATIC

[illegible]416

(Physics--Thermodynamics, TT, v. 6, no. 9)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

ZHURNAL TEKHNICHESKOY FIZIKI Vol.XI No. 7 (Jul'41)
pp 617-8.

"A SCHEME FOR A HIGH-VOLTAGE ELECTROSTATIC GENERATOR WITH A METAL GROUNDED AXIS" by Ioffe and Goldberg.

PROJECT # 7788

ST- 243

TD 15-Jan '5.

DATE: Jan 18 1951

WAK

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

61-18002

Gerf, S. F. and Galkov, G. I.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR MIXTURES, III. [1961] 8p. 7 refs.
Order from OTS or SLA $1.10 61-18002

I. Gerf, S. F.
II. Galkov, G. I.

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 801-808.

DESCRIPTORS *Liquefied gases, Viscosity, Mixtures, Measurement, Ethanes, Carbon compounds, Monoxides, Methanes, Ethylenes, Nitrogen.

Coefficients of viscosity for liquid ethane, carbon monoxide, methane, ethylene and mixtures of methane with nitrogen, methane with ethylene and carbon monoxide with nitrogen were determined by a method involving the use of a rotating cylinder. The measurements were carried out within the temperature interval from the boiling points to the critical temperatures and the results are represented as viscosity coefficient-tempera-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

5415

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Zh Tekh Fiz Vol 11, page 843-53 (1941)

Investigation of Vibrations in Piezoelectric Quartz Plates by the Method of Light Interference.
by M. L. Kotlyarevski and E. Ya. Pumper.

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Mechanism of the Diffusion in the Cementation of Iron and Nickel by Chemical Compounds, by M. G. Okuev, L. S. Moroz, 22 pp.

RUSSIAN, per, Zhur Tekh Fiz, S Vol XI, 1941, pp 689-699.

SIA R-768

Sci - Minerals/Metals
Oct 57

54,048

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Kharakhorin, F. F.
PHASE RELATIONSHIPS IN COMPRESSED GAS SYSTEMS. II. EQUILIBRIUM IN COEXISTING LIQUID AND VAPOR PHASES IN THE SYSTEM ETHANE-ETHYLENE. [1961] 5p. 3 refs.
Order from OTS or SLA $1.10 61-18034

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 1133-1139.

DESCRIPTORS: *Ethanes, *Ethylenes, Liquids, Vapors, Phase studies, Chemical equilibrium, Determination.

Equilibrium compositions of the liquid and vapor phases in the binary system ethane-ethylene were determined by the circulation method for temperatures from 169.3°K to 273.15°K under pressures from 0.5 to 40 atm and p-x and T-x diagrams constructed. It was shown that the data for the liquid and vapor phases may
(Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18034

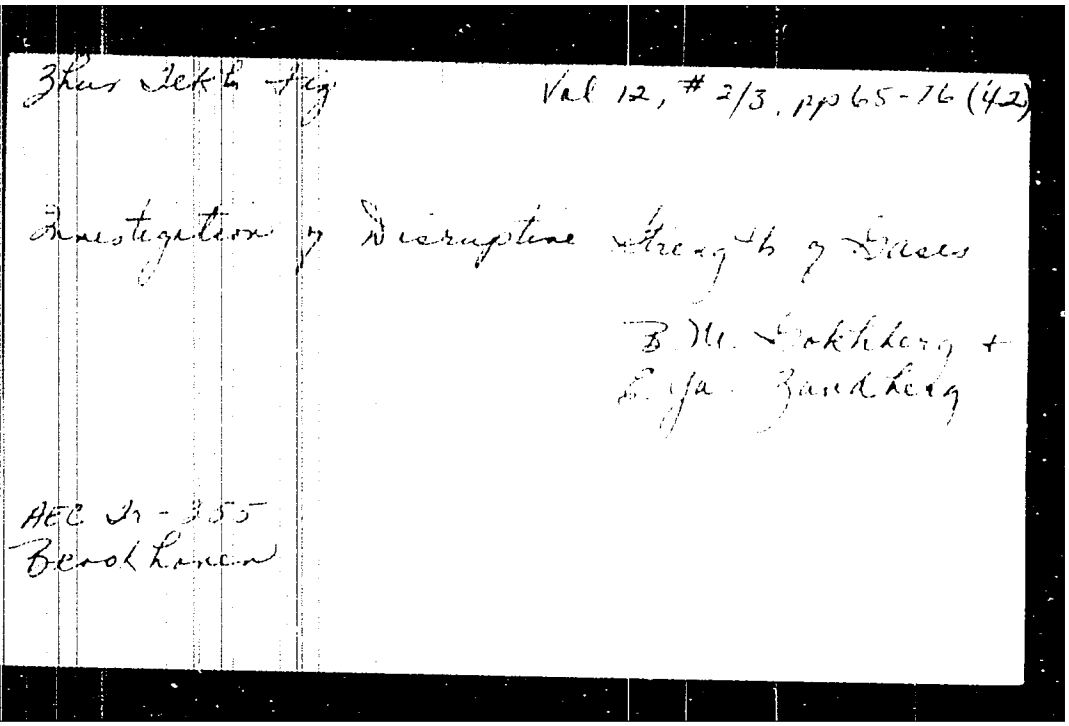
I. Kharakhorin, F. F.
II. Title: Equilibrium...

[illegible]421

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



3 Rev Lett Hg Vol 12, # 2/3, pp 65-76 (42)

Investigation of Disruptive Strength of Discs

B M. Sakhkarg +
E/a Bandkarg

AEC Tr-3555
Brookhaven

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Forced Vibrations of a System Striking a Stop, by
I. G. Ruskov, A. A. Kharkevich,

RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 11-12,
1942, pp 715-721.

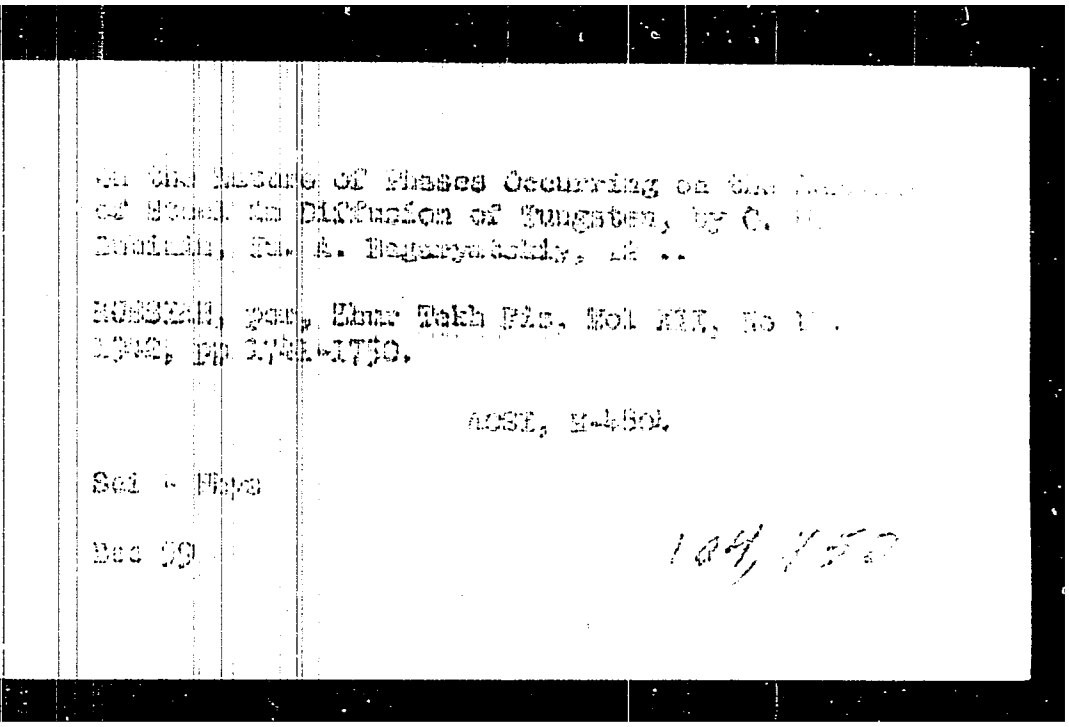
ATS RJ-1304

Sci - Phys
Jul 59

92, 219

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



On the Nature of Phases Occurring on the [illegible]
of Sodium on Diffusion of Tungsten, by C. [illegible]
Smithells, Sc. A. Begunyatskiy, et ..

Russian, per, Chem Tekh Fiz, Vol XII, No 1 ,
1942, pp 171-177(0).

ASSE, 5-4501.

Sol - Phys

Dec 59

184, 150

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Kharakhorin, F. F.
PHASE RELATIONSHIPS IN [COMPRESSED GAS SYSTEMS. I]. BINARY SYSTEM NITROGEN-HELIUM. [1961] 8p. 14 refs.
Order from OTS or SLA $1.10 61-18035

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940, v. 10, p. 1533-1540.

DESCRIPTORS: *Nitrogen, *Helium, Liquids, Vapors, Phase studies, Chemical equilibrium, Determination.

An experimental unit is described suitable for determination of the liquid-vapor equilibrium at pressures up to 200-250 atm. by the circulation method. Determination of p-x diagrams has been carried out for the system nitrogen-helium at 68, 77.3, 90.1, 107 and 111.5°K. The obtained data were compared with the experimental data reported by other authors. (Author)
(Chemistry--Physical, TT, v. 6, no. 9)

61-18035

I. Kharakhorin, F. F.
II. Title: Binary ...

5419

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Electric Conductivity of Alumina at High Temperatures, by A. R. Shulman, 14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940, pp 1173-1182.

SIA R-2414

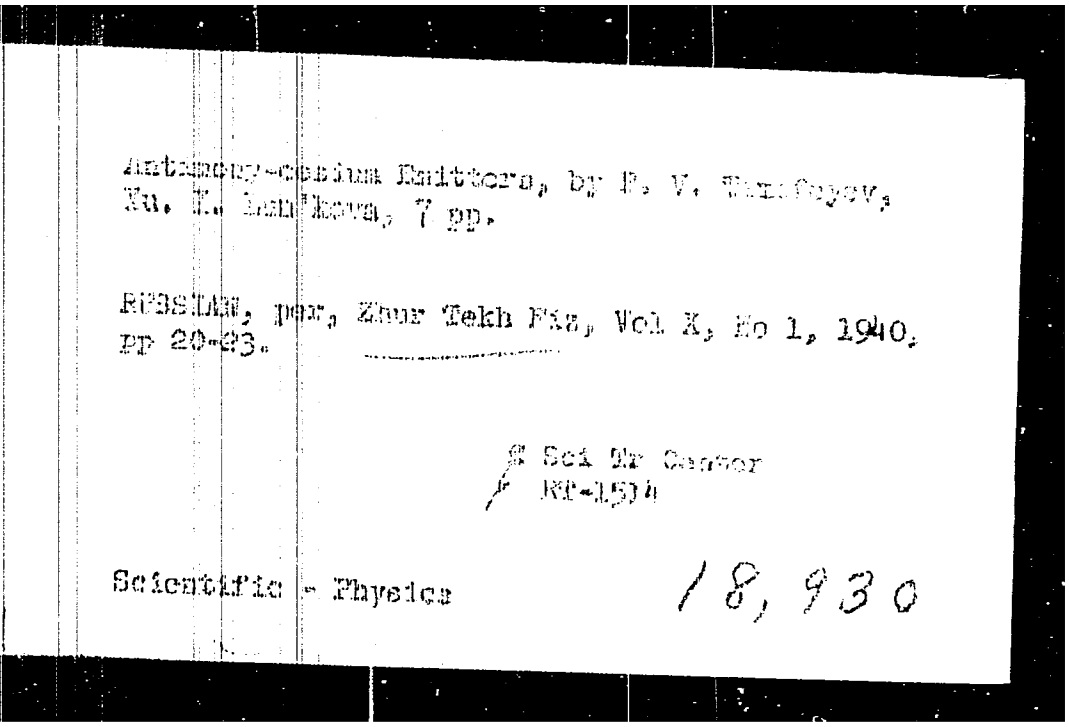
Sci

Aug 58

72,206

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2



Antimony-cesium Emitters, by P. V. Timofeyev, Yu. F. Lukhova, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 1, 1940, pp 20-23.

Sci Dr Center
NY-1514

Scientific - Physics

18,930

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Absorption of Energy by Metals in Plastic Compression As a Function of Melting Point, by A. A. Federov, 14 pp. RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, No 11, No 11, 1941, pp 999---.
ARM/FSTC/HT-23-778-71

Jan 72

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

Klibanova, Ts. M., Pomerantsev, V. V., and Frank-Kamenetskii, D. A.
DIFFUSION COEFFICIENTS OF GASES AT HIGH TEMPERATURES. [1962] [32]p. (figs. omitted) 7 refs. Order from OTS or SLA $3.60 62-18273

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1942, v. 12, no. 1, p. 14-30.

DESCRIPTORS: *Diffusion, *Gases, *High temperature research, Capillary tubes, Theory, Differential equations.

The diffusion coefficients of CO_2 in air at temperatures from 17° to 1260° C. and of H_2O in air at temperatures from 100 to 1200° C. were determined. The possibility of calculating the diffusion coefficients with the equation of Sutherland was confirmed. An empirical equation is given for determining the Sutherland constant of mixed gases from the constants for the pure gases.
(Chemistry--Physical, TT, v. 9, no. 10)

62-18273

I. Klibanova, Ts. M.
II. Pomerantsev, V. V.
III. Frank-Kamenetskii, D. A.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

The Production of X-Ray Photographs With Very Short Exposure Times, by V. A. Tsukerman, A. I. Avdeyenko, 14 pp.
RUSSIAN, Per, Zhurnal Tekh Fiz, Vol XII, 1942, pp 185-196, 92S0425.
AEC LA-tr-65-21

293,006

Sci-Phys
Nov 65

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

A High-Power Electric Spark in Air at Atmospheric Pressure, by I. S. Abramson, I. S. Marshak, 18pp
RUSSIAN, per, Zhurnal Tekhicheskoi Fiz, Vol 12, 1942, No 10, pp 632-639
OTS TT-64-11821

Sci - Phy
May 67

326,520

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

A High-Power Electric Spark in Air at Atmospheric Pressure, by I. S. Abramson, I. S. Marshak, 13 pp. RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 10, 1942, pp 632-639. 9223018
Amer Meteorol Soc
T-R-414
WLL 7773.75 1964, on loan

Sci - Phys
Jul 64

263,871

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470004-2

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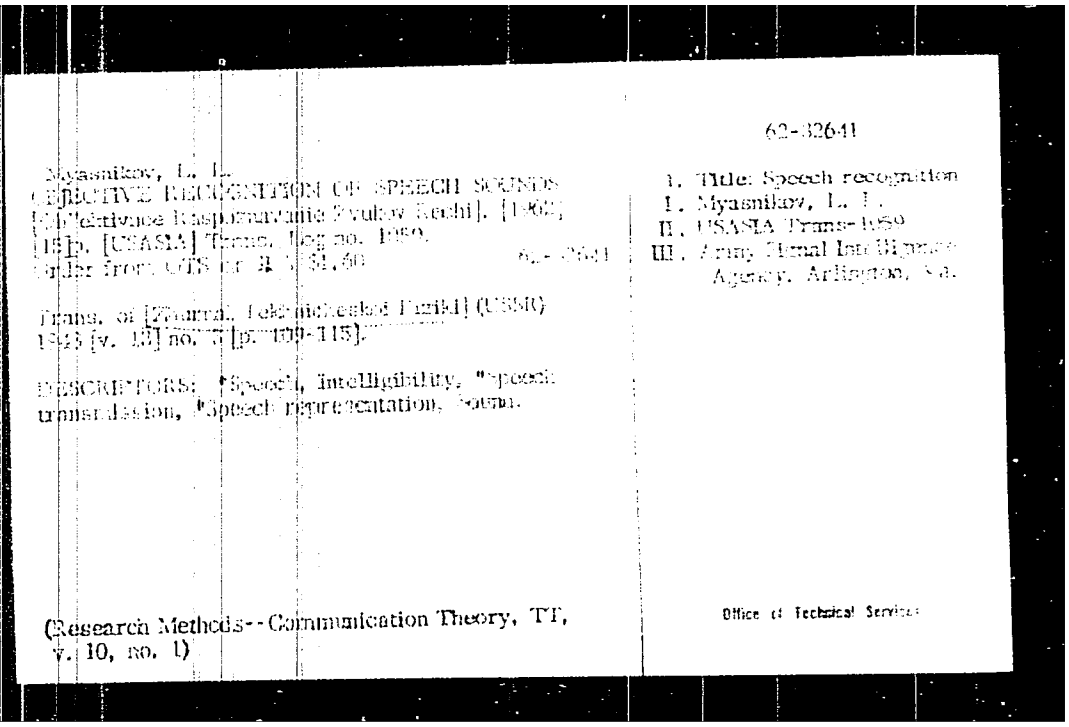

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DESCRIPTORS: *Speech, Intelligibility, *Speech transmission, *Speech representation, Sound.

(Research Methods--Communication Theory, TT, v. 10, no. 1)

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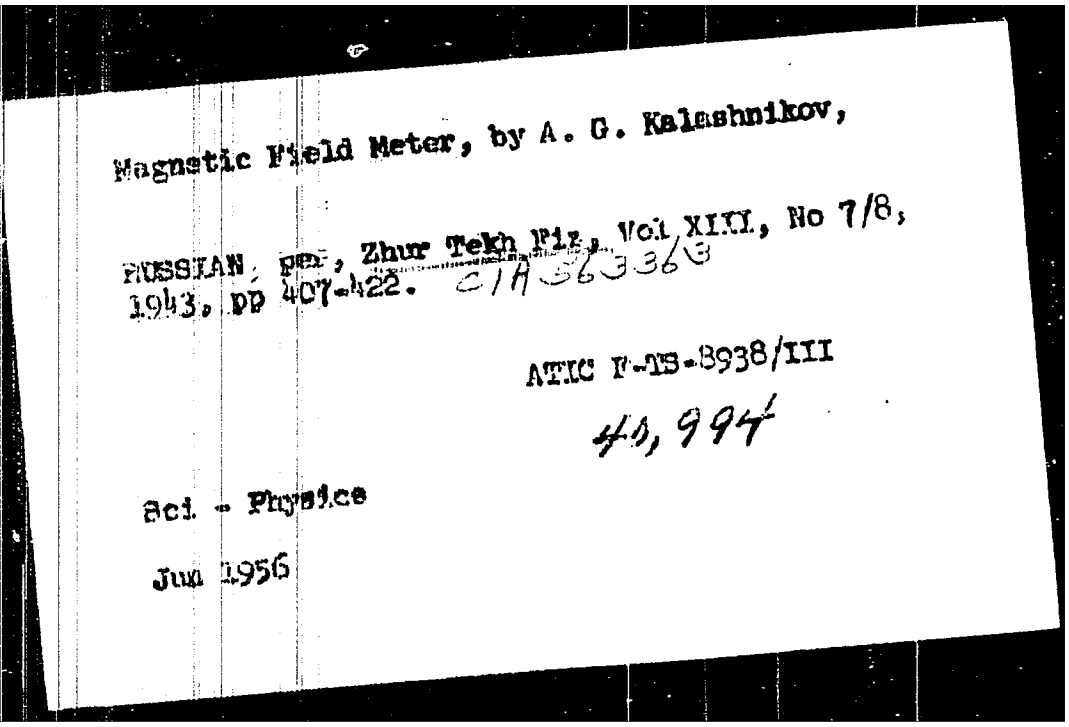

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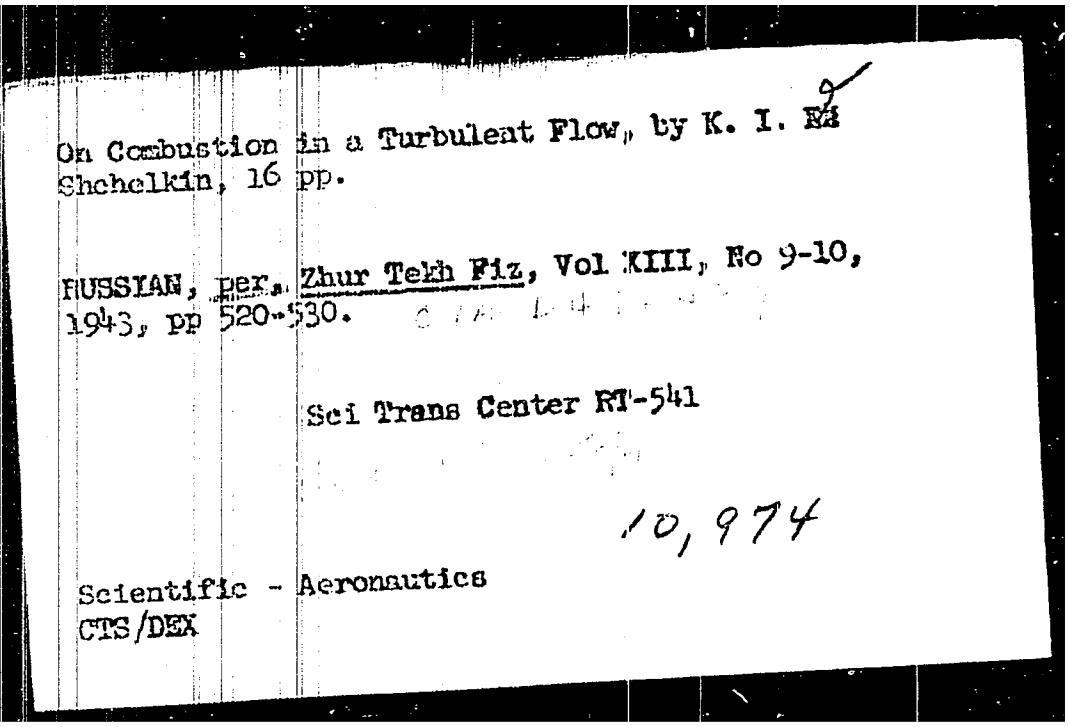

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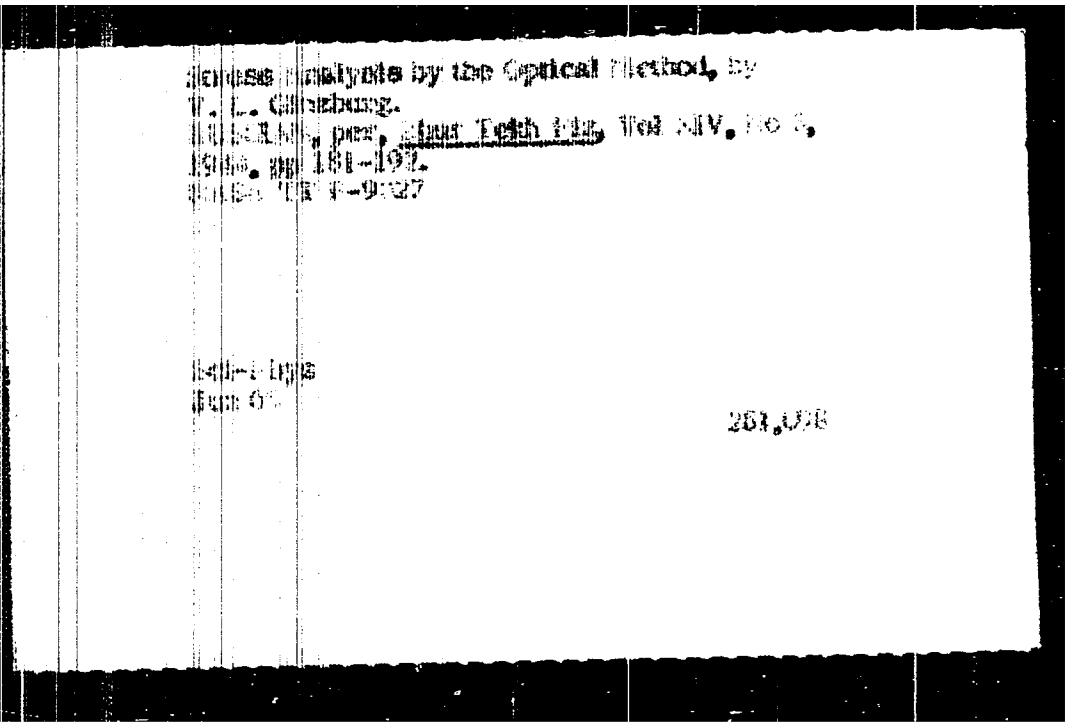

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